

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 933 908 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
04.12.2002 Bulletin 2002/49(51) Int Cl.7: H04M 1/02, G06F 3/02,
H04M 1/23(43) Date of publication A2:
04.08.1999 Bulletin 1999/31

(21) Application number: 99660006.0

(22) Date of filing 15.01.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI(72) Inventors:
• Sirola, Jukka
33580 Tampere (FI)
• Berry, Onni
33720 Tampere (FI)

(30) Priority 29.01.1998 FI 980199

(74) Representative: Johansson, Folke Anders et al
Nokia Corporation,
P.O. Box 226
00045 Nokia Group (FI)(71) Applicant Nokia Corporation
02150 Espoo (FI)

(54) Portable electronic apparatus

(57) A mobile communication device has a body portion (2) and a lid (7) hingeably coupled to the body portion (2). The lid (7) is moveable about a hinged joint (8) between open and closed positions in which a surface portion of the body portion (2) is respectively uncovered and covered by the lid. A first plurality of data input keys (11b) are provided on said surface portion of the body portion (2) whilst a second plurality of data input keys (11a) are provided on an inner surface of the lid (7). The first and second plurality of keys combine, when the lid (7) is open, to provide a QWERTY keyboard. A third plurality of keys (10) on an outer surface of the lid (7) provide a set of telephone keys for use when the lid (7) is closed. An electronic display (6) is provided on a surface of the body portion (2), the display (6) being visible to a user when the lid (7) is in both the open and closed positions. Display control means is arranged to display information on the display (6) with a first orientation when the lid (7) is in the open position and with a second orientation, substantially at right angles to said first orientation, when the lid (7) is in the closed position.

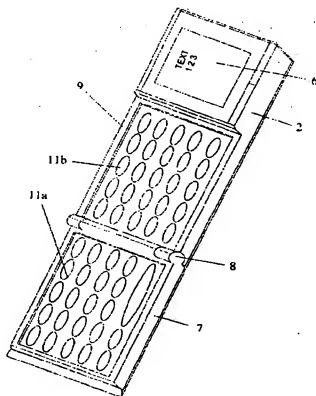


Figure 2

EP 0 933 908 A3

European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 66 0006

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.)
D, A	EP 0 534 478 A (CASIO COMPUTER CO LTD) 31 March 1993 (1993-03-31) * claims 1-3; figures 1,3 *	1,6-8,10	H04M1/02 G06F3/02 H04M1/23
A	WO 97 12470 A (MEDSYSTEMS OY ; KUPIAINEN JUHANI (FI)) 3 April 1997 (1997-04-03) * page 6, line 18 - page 7, line 25; figures 2A,2B,3A,3B *	1,7,8,10	
A	EP 0 804 009 A (MITSUBISHI ELECTRIC CORP) 29 October 1997 (1997-10-29) * column 34, line 24 - column 35, line 18; figures 35,36 * * column 38, line 16-33; figures 47,48 *	1,6-10	
A	EP 0 796 026 A (AT & T CORP) 17 September 1997 (1997-09-17) * column 4, line 41 - column 5, line 18; figures 1A,2A * * column 8, line 18-33; figures 3A,3B * * column 9, line 17-36 *	1,6-8,10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.)
			H04M G06F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 October 2002	Examiner de Biolley, L
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EP 0 933 908 A3 (PUB)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 66 0006

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-10-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0534478 A	31-03-1993	DE 69216971 D1	06-03-1997
		DE 69216971 T2	15-05-1997
		EP 0534478 A2	31-03-1993
		JP 3120592 B2	25-12-2000
		JP 5211464 A	20-08-1993
		KR 9608830 B1	05-07-1996
		SG 47982 A1	17-04-1998
		US 5337346 A	09-08-1994
WO 9712470 A	03-04-1997	FI 954621 A	29-03-1997
		AU 7087496 A	17-04-1997
		EP 0872098 A1	21-10-1998
		WO 9712470 A1	03-04-1997
		JP 11512890 T	02-11-1999
		US 2001031049 A1	18-10-2001
EP 0804009 A	29-10-1997	JP 10042022 A	13-02-1998
		CA 2202309 A1	26-10-1997
		CN 1177268 A	25-03-1998
		EP 0804009 A2	29-10-1997
		US 6208879 B1	27-03-2001
		US 6009338 A	28-12-1999
EP 0796026 A	17-09-1997	EP 0796026 A2	17-09-1997
		JP 10056500 A	24-02-1998
		US 6046730 A	04-04-2000